

# Notice of Allowability

Application No.

09/817,320

Examiner

Zachary A. Davis

Applicant(s)

ROYER ET AL.

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE and Amendment received 12 June 2006.

2. ☒ The allowed claim(s) is/are 1-22.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some\* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.

(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 20060501

4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 12 June 2006 has been entered.
2. By the above submission, no claims have been amended, added, or canceled. Claims 1-22 are currently pending in the present application.

### ***Allowable Subject Matter***

3. Claims 1-22 are allowed.
4. The following is an examiner's statement of reasons for allowance:  
  
Independent Claims 1 and 13 are directed to systems for encoding URL data in order to detect unauthorized URL modification that includes a link processor that identifies and encrypts an address portion of a URL and incorporates the encrypted address portion with the non-encrypted address into a single URL string, and a

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communication processor that incorporates the string into formatted data. Independent Claim 15 is directed to a corresponding system for decoding URL data that includes a link processor that identifies and decrypts the encrypted address portion, and a validation processor that determines if the decrypted address has been modified. Independent Claims 20 and 21 are directed to methods corresponding substantially to the systems of Claims 1 and 15. The closest prior art, Calamera et al, US Patent 6463533, discloses a system that encodes (e.g. by compressing) the address portion of a URL and incorporates the encoded portion with the plaintext version into a single string and further incorporates the processed string into formatted data; however, as noted by Applicant (for example, at page 15 of the present response), Calamera states that the user's identity would not be revealed and teaches against conveying information in URL data fields. Other close prior art, Payne et al, US Patent 5715314, discloses encrypting portions of a URL and incorporating the encrypted portion with a non-encrypted portion into a single string and further incorporating the string into formatted data; however, Payne does not explicitly disclose that the address of the URL is the portion that is encrypted. Further relevant prior art, Levergood, US Patent 5708780, discloses incorporating URL data into formatted data and including a session identifier in the processed URL data. However, because Calamera teaches against sending information in URL data fields and only allows a single server (not the destination) to decrypt the encrypted portions of the URL, one of ordinary skill in the art would not have been motivated to combine Calamera with the teachings of Payne

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and/or Levergood. Therefore, the cited prior art does not teach or suggest all of the limitations of the claimed invention.

The Examiner notes that Applicant attempts to distinguish the "DOMAIN" and "PATH" in Calamera from the claimed "address portion of a URL" (see, for example, page 8 of the present response). However, the Examiner notes that the domain and path are both described in the present specification as being used to generate the hash value of the address portion that is then encrypted (see page 9, line 33-page 10, line 1, of the present specification).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Payne et al, US Patent 5909492, discloses system that includes a URL authenticator, such as a digital signature, incorporated into sent URLs.
  - b. Lincke et al, US Patent 6253326, discloses a system that encrypts request parameters, such as URLs, transmitted over a network, in order to foil replay attacks.

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- c. Royer et al, US Patent 7043752, claims priority to the same provisional application as does the present application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary A. Davis whose telephone number is (571) 272-3870. The examiner can normally be reached on weekdays 8:30-6:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
ZAD

  
EMMANUEL L. MOISE  
SUPERVISORY PATENT EXAMINER